

Beyond the Classroom

Database Administrator Position

GENERAL CASE 

FROM SCRATCH 

Create a database to keep track of candidates for open positions at Secure Systems, Inc., database management experts. Use the Internet to search for information about database management positions. One useful site is published by the federal government's Bureau of Labor Statistics. It compiles an Occupational Outlook Handbook describing various positions, the type of working environment, the education required, salary information, and the projected growth. The website is <http://www.bls.gov/ooh>. Research the necessary information in order to create the database using these requirements:

- a. Create a new database named **a02b1Admin_LastFirst**.
- b. Create three tables including the field names as follows, and in the specified orders:
 - **Candidates (CandidateID, FirstName, LastName, Phone, Email).**
 - **JobOpenings (JobOpeningID, JobName, RequiredSkill, HourlyPayRate, DataPosted, Supervisor).**
 - **Interviews (InterviewSequenceID, CandidateID, JobOpeningID, InterviewedBy, DateOfInterview, Rank).**
- c. Set the data types, field properties, and a primary key for each table.
- d. Set table relationships, and be sure to enforce referential integrity between them. Cascade update related fields
- e. Add 10 candidates to the Candidates table.
- f. Add a **Database Administrator** job and four other sample jobs to the JobOpenings table.
- g. Add eight sample interviews—four for the Database Administrator position and four others. Rank each candidate on a scale of 1 to 5 (with 5 as the highest).
- h. Create a query that lists the LastName, FirstName, JobOpeningID, InterviewedBy, DateOfInterview, and Rank fields. Display only Database Administrator interviews with a ranking of 3 or lower. Sort by LastName and then by FirstName. Run and save the query as **Database Admin Low Rank**. Close the query
- i. Close the database and exit Access. Based on your instructor's directions, submit a02b1Admin_LastFirst.

May Beverage Sales

DISASTER RECOVERY 

A coworker explained that he was having difficulty with queries that were not returning correct results, and asked you to help diagnose the problem. Open *a02b2Traders* and save it as **a02b2Traders_LastFirst**. It contains two queries, *May 2018 Orders of Beverages and Confections* and *2018 Beverage Sales by Ship Country*. The May 2018 Orders of Beverages and Confections query is supposed to contain only information for orders shipped in May 2018. You find other shipped dates included in the results. Change the criteria to exclude the other dates. Run and save the query. Close the query.

The 2018 Beverage Sales by Ship Country query returns no results. Check the criteria in all fields and modify so that the correct results are returned. Run and save the query. Close the query.

Close the database and exit Access. Based on your instructor's directions, submit a02b2Traders_LastFirst.